



Science Notebooks: A Powerful Learning Program

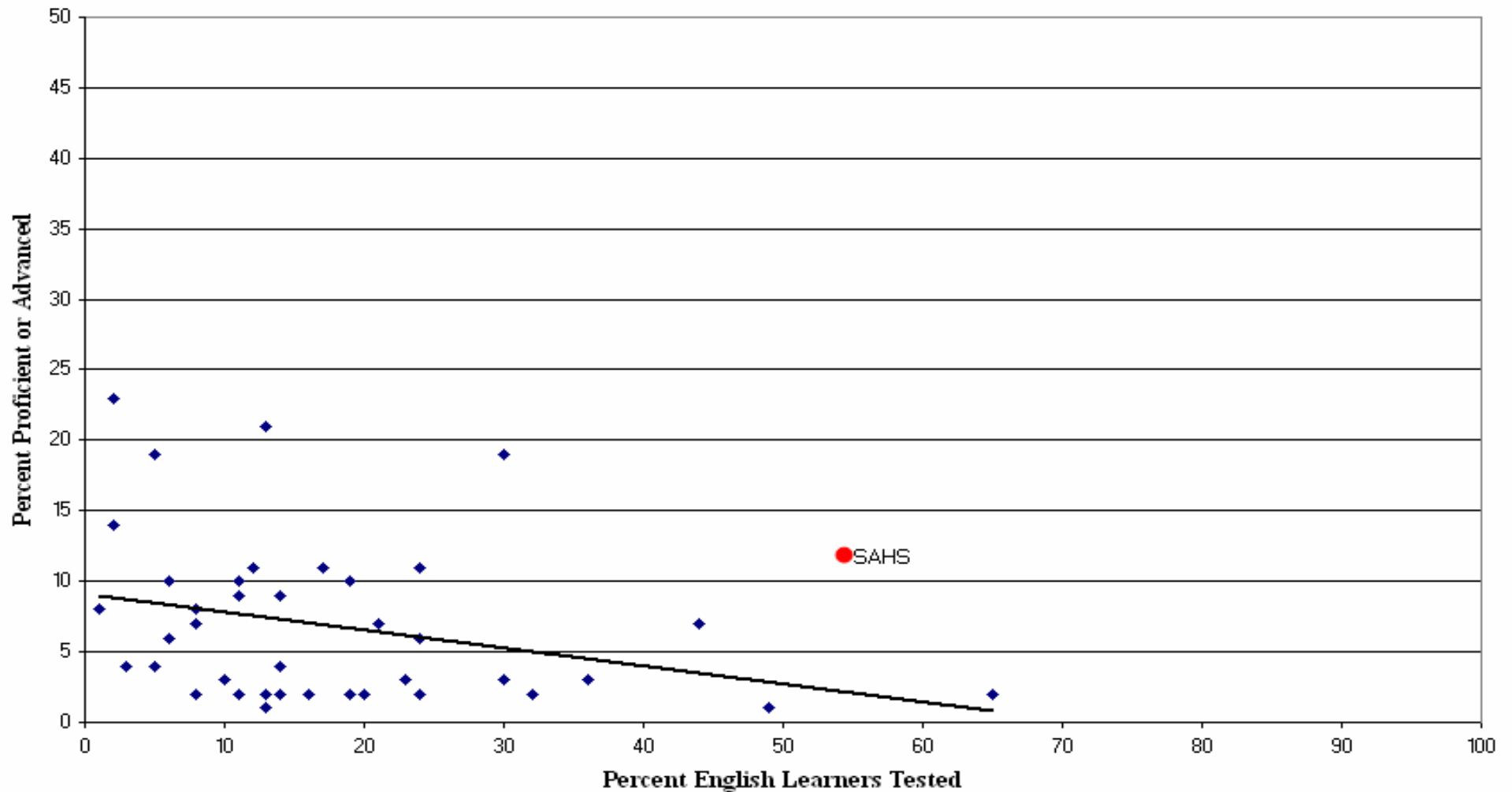
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Comparative Data Trends

Table 2

**2006 Biology Proficiency
Correlated to Percent English Learners Tested**

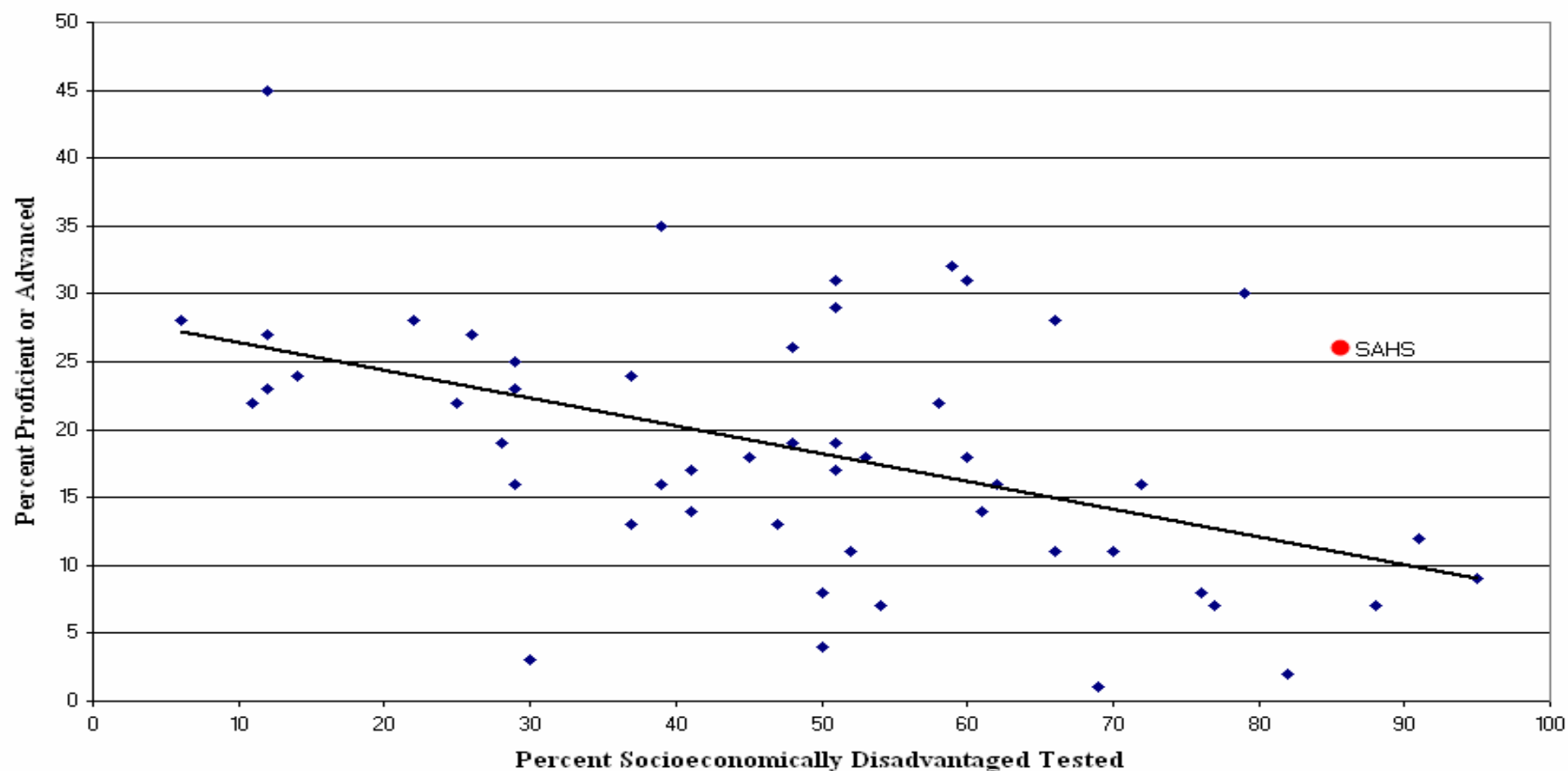




Comparative Data Trends

Table 3

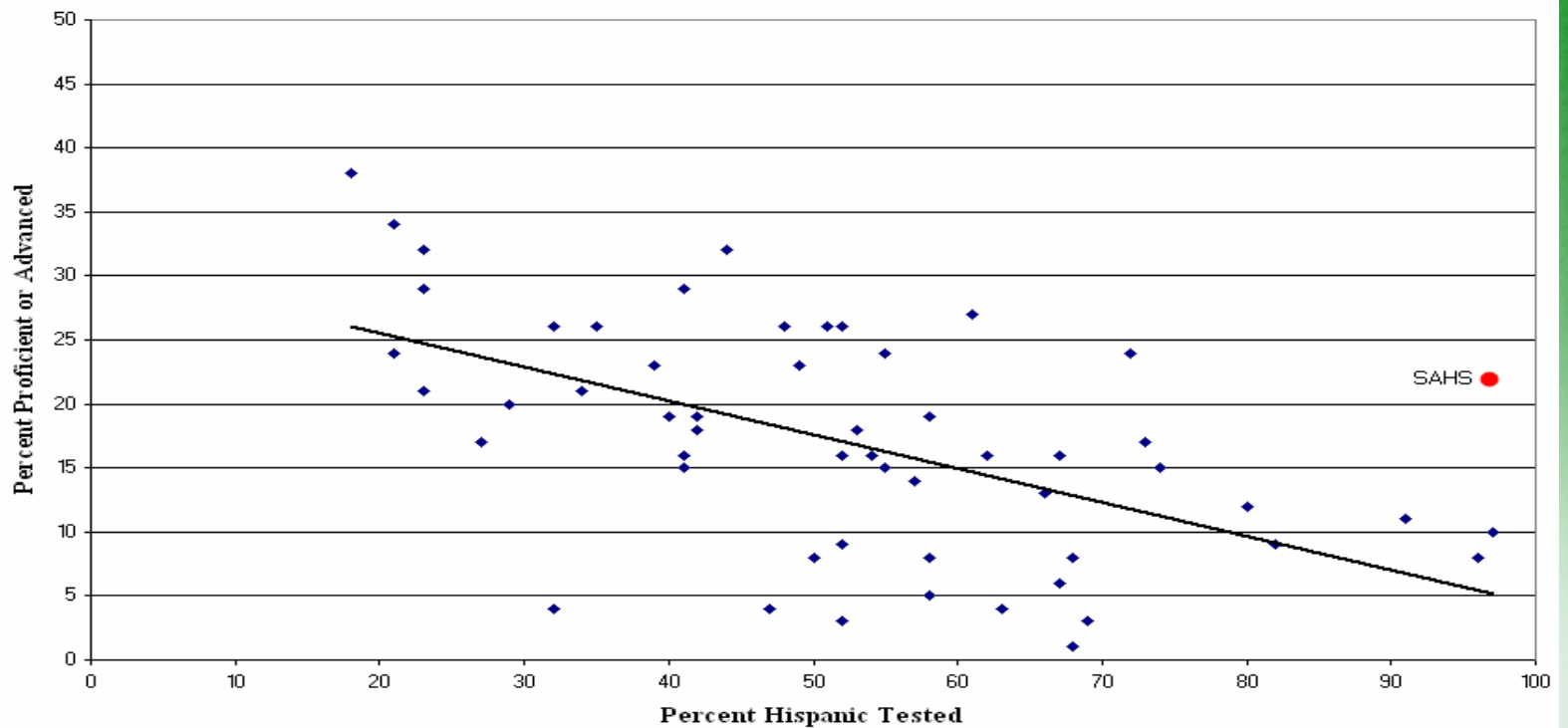
**2006 Biology Proficiency
Correlated to Percent Socioeconomically Disadvantaged Tested**



Comparative Data Trends

Table 1

**2006 Biology Proficiency
Correlated to Percent Hispanic Tested**



Literacy Development

- In the notebooks
 - Pre reading
 - Cornell Notes Outline
 - Cornell Notes
 - Essential Concepts & Questions
 - Content Summaries/Learning logs
 - Essays
 - Power Vocabulary Words
 - Pictionary
 - Outputs



Critical Thinking

- In the notebooks
 - Laboratory Investigations
 - Essential Concepts & Questions
 - Reflective/metacognition
 - Exam Analysis
 - Inquiry based Learning
 - Demonstrations/animations
 - Higher order question strategies
 - Thematic Units



Assessment/Feedback as a Learning Tool

- In the notebooks
 - Editing ECQ's
 - Verbal assessments
 - Team assessments
 - Study week/exam prep
 - Pre/post exam analysis
 - Immediate feedback on informal/formal assessments
 - 2 week CST preparation
 - Differentiated study strategies
 - Content summaries/Learning logs



Reflective Learning

- In the notebooks
- Science notebook
- Content closure and relevance
- Hypothesis v. Conclusion
- Essential Concepts & Questions
- Reflective Assignments
- Pre-Post Exam Analysis
- Inquiry based Learning
- higher order question strategies
- Differentiated study packets
- Content summaries/learning logs





The Science Notebook

- Becomes the critical artifact that contains evidence of all of the **practices implemented for the teacher**

....And

- All of the **learning for the student**



OUR MISSION

To increase student achievement and proficiency levels by...


Engaging teachers in long term
in-class collaborative support






Professional Development

The 5 Step Model

- 
- Presentation of description of a new skill
 - Demonstration/modeling of skill
 - Initial practice in a protected/simulated setting
 - Open ended feedback of performance
 - Coaching/follow up attention

(Joyce & Showers, 1980)





Thank You!

Henry and Yamileth Shimojyo© 2012